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APPLICATION NO.	· FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/759,430	01/12/2001	Lee R. Bolduc	105-C1	1423
27777 PLUL ID S. 101			EXAMINER	
PHILIP S. JOHNSON JOHNSON & JOHNSON			EREZO, DARWIN P	
	N & JOHNSON PLAZA WICK, NJ 08933-7003		ART UNIT	PAPER NUMBER
	···		3773	
			MAIL DATE	DELIVERY MODE
			01/09/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/759,430	BOLDUC ET AL.				
Office Action Summary	Examiner	Art Unit				
	Darwin P. Erezo	3773				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirg will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 15 C	october 2007.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>14-30 and 36-72</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>14-17,19-30,36,38,39 and 45-72</u> is/are rejected.						
7) Claim(s) <u>18,37 and 40-44</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document)-(d) or (f).				
2. Certified copies of the priority document	• •					
3. Copies of the certified copies of the prio	•	ed in this National Stage				
application from the International Burea		ad				
* See the attached detailed Office action for a list	of the certified copies not receive	su.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal F					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	••				

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DETAILED ACTION

Response to Amendment

1. The amendment filed on 10/15/07 has been entered into the application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 14-17, 19-30, 36, 38, 39 and 45-72 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,234,447 to Kaster et al. in view of US 5,830,222 to Makower.

Kaster teaches a method for an end-to-side anastomosis comprising the steps of providing an anastomosis device (10,12) having a plurality of openings (or slots defined in the core unit 14 having openings to secure the staple 12 within the sleeve 12; also viewed as the means for holding the tissue securing elements); and a plurality of tissue securing elements having a first end a second end (44,43) that can be configured from

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an undeployed configuration to a deployed configuration; holding the plurality of tissue securing elements in the undeployed configuration (Fig. 14); inserting the first end through the second hollow tissue (Fig. 17); wherein the tissue securing elements are ejected from the delivery device after deployment; permitting the plurality of the tissue securing element to move from the undeployed configuration to the deployed configuration (transitioning from Fig. 17-19); wherein the first end of the tissue securing elements contact the inner surface of the second hollow tissue and the second end of the tissue securing element contact the outer surface of the second hollow tissue (end of transition shown in Fig. 19), wherein the first end of the tissue securing elements are permitted to assume the deployed configuration prior to the second end (Fig. 17); wherein the anastomosis is formed between a first blood vessel and a second blood vessel (which could be the aorta since the aorta is blood vessel); wherein both the first and second hollow tissues are compressed; wherein the first hollow tissue is everted prior to insertion to about 90 degrees, more or less (Fig. 15 and depending on the base of the angle); wherein the distal end of the first hollow tissue is compressed against the outer surface of the second hollow tissue (Fig. 17); wherein the first end of the tissue securing elements is inserted from an exterior surface toward the interior surface (since the tissue is everted; Fig. 15); wherein the device further comprises a hub having a bore (the diameter of element 46) that receives the first hollow tissue; wherein the device comprises a body (element 46 can also be viewed as a body/sleeve); wherein the anastomosis device or the delivery device is removed after delivering the securing elements, wherein the anastomosis device comprises a plunger or mandrel 16 for

delivering the securing elements; and wherein the anastomosis device has a bore and the plurality of openings communicate with each other via the bore (see Fig. 5).

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Kaster discloses all the limitation of the claimed invention except for the device being made of a material that is biased from an unbiased configuration to a biased configuration, and wherein the first ends of the tissue securing elements do not pierce the inner wall of the second hollow tissue structure.

However, Makower discloses a very similar anastomosis device (see Figs. 9, 9B, and 9C), which applies clips to connect hollow tissue structures, but teaches that the clips should be made out of shape memory materials. Makower teaches that a "passive" application of clips (col. 7, lines 35-37), in which the clips are merely permitted to move from a biased configuration to an unbiased configuration, is a "simplified" way of applying clips to tissue (col. 7, line 37). Makower also discloses a clip tissue securing device that does not pierce the tissue to which the clip attaches thereto.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the methodology of Kasper to have the tissue securing elements be made of a shape memory material that moves from a biased configuration to an unbiased configuration since such method is well-known in the art and provides a simpler way of connecting tissues, as disclosed by Makower. Furthermore, it would be obvious to modify the methodology of Kaster as cited above since the use of a known technique (self-deploying tissue securing elements) to improve similar devices (the device of Kaster) in the same way will provide predictable results.

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KSR Int'l Co. v. Teleflex Inc., 127 S.Ct. 1727, 1742, 82 USPQ2d 1385, 1396 (2007). With regards to the first end of the tissue securing element not piercing the wall of the tissue, one of ordinary skill in the art would have found it obvious to modify the tissue securing elements of Kaster to have non-pierceable first ends as disclosed by Makower, since simple substitutions of one known element for another known element will also provide predictable results, especially since both types of securing elements are used to secure tissue (see cited case law to KSR).

Allowable Subject Matter

5. Claims 18, 37 and 40-44 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. The applicant's amendments to the claims have overcome the rejection under 35 USC 112, first paragraph. However, claims 14-17, 19-30, 36, 38, 39 and 45-72 are now rejected under 35 USC 103, as listed above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darwin P. Erezo whose telephone number is (571) 272-4695. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jackie Ho can be reached on (571) 272-4696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Darwin P. Erezo/ Examiner Art Unit 3773

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